Wentao Wang

List of Publications by Citations

31 papers	947 citations	18 h-index	30 g-index
40 ext. papers	1,143 ext. citations	8.5 avg, IF	4.43 L-index

#	Paper	IF	Citations
31	Strategies for interfacing inorganic nanocrystals with biological systems based on polymer-coating. *Chemical Society Reviews*, **2015**, 44, 193-227	58.5	156
30	Biomimetic corrugated silicon nanocone arrays for self-cleaning antireflection coatings. *Nano Research*, **2010**, 3, 520-527	10	90
29	A multifunctional polymer combining the imidazole and zwitterion motifs as a biocompatible compact coating for quantum dots. *Journal of the American Chemical Society*, **2015**, 137, 14158-72	16.4	89
28	Photoligation of an amphiphilic polymer with mixed coordination provides compact and reactive quantum dots. *Journal of the American Chemical Society*, **2015**, 137, 5438-51	16.4	67
27	Highly effective and reproducible surface-enhanced Raman scattering substrates based on Ag pyramidal arrays. *Nano Research*, **2013**, 6, 159-166	10	63
26	Design of a multi-dopamine-modified polymer ligand optimally suited for interfacing magnetic nanoparticles with biological systems. *Langmuir*, **2014**, 30, 6197-208	4	57
25	Multifunctional and High Affinity Polymer Ligand that Provides Bio-Orthogonal Coating of Quantum Dots. *Bioconjugate Chemistry*, **2016**, 27, 2024-36	6.3	37
24	Characterization of the Ligand Capping of Hydrophobic CdSe/ZnS Quantum Dots Using NMR Spectroscopy. *Chemistry of Materials*, **2018**, 30, 225-238	9.6	34
23	Controlling the spectroscopic properties of quantum dots via energy transfer and charge transfer interactions: Concepts and applications. *Nano Today*, **2016**, 11, 98-121	17.9	30
22	Self-Assembled Gold Nanoparticle-Fluorescent Protein Conjugates as Platforms for Sensing Thiolate Compounds via Modulation of Energy Transfer Quenching. *Bioconjugate Chemistry*, **2017**, 28, 678-687	6.3	29
21	Enhanced Colloidal Stability of Various Gold Nanostructures Using a Multicoordinating Polymer Coating. *Journal of Physical Chemistry C*, **2017**, 121, 22901-22913	3.8	25
20	Self-Assembled Monolayer Islands Masked Chemical Etching for Broad-Band Antireflective Silicon Surfaces. *Journal of Physical Chemistry C*, **2010**, 114, 1989-1995	3.8	25
19	Engineering the Bio-Nano Interface Using a Multifunctional Coordinating Polymer Coating. *Accounts of Chemical Research*, **2020**, 53, 1124-1138	24.3	21
18	Tuning the Redox Coupling between Quantum Dots and Dopamine in Hybrid Nanoscale Assemblies. *Journal of Physical Chemistry C*, **2015**, 119, 3388-3399	3.8	20
17	Modification of Poly(maleic anhydride)-Based Polymers with HN-R Nucleophiles: Addition or Substitution Reaction?. *Bioconjugate Chemistry*, **2019**, 30, 871-880	6.3	20
16	Langmuir–Blodgett Monolayer Masked Chemical Etching: An Approach to Broadband Antireflective Surfaces. *Chemistry of Materials*, **2009**, 21, 1802-1805	9.6	19
15	A Versatile Coordinating Ligand for Coating Semiconductor, Metal, and Metal Oxide Nanocrystals. *Chemistry of Materials*, **2018**, 30, 7269-7279	9.6	19

14	Elucidating the Role of Surface Coating in the Promotion or Prevention of Protein Corona around Quantum Dots. *Bioconjugate Chemistry*, **2019**, 30, 2469-2480	6.3	18
13	Effects of separation distance on the charge transfer interactions in quantum dot-dopamine assemblies. *Physical Chemistry Chemical Physics*, **2015**, 17, 10108-17	3.6	18
12	A multifunctional amphiphilic polymer as a platform for surface-functionalizing metallic and other inorganic nanostructures. *Faraday Discussions*, **2014**, 175, 137-51	3.6	17
11	Characterizing the Brownian Diffusion of Nanocolloids and Molecular Solutions: Diffusion-Ordered NMR Spectroscopy vs Dynamic Light Scattering. *Journal of Physical Chemistry B*, **2020**, 124, 4631-4650	3.4	13
10	Intracellular Delivery of Gold Nanocolloids Promoted by a Chemically Conjugated Anticancer Peptide. *ACS Omega*, **2018**, 3, 12754-12762	3.9	13
9	Förster Resonance Energy Transfer between Colloidal CuInS2/ZnS Quantum Dots and Dark Quenchers. *Journal of Physical Chemistry C*, **2020**, 124, 1717-1731	3.8	11
8	A multi-coordinating polymer ligand optimized for the functionalization of metallic nanocrystals and nanorods. *Faraday Discussions*, **2016**, 191, 481-494	3.6	11
7	Scaling Laws for Polymer Chains Grafted onto Nanoparticles. *Macromolecular Chemistry and Physics*, **2018**, 219, 1700417	2.6	10
6	Compact, "Clickable" Quantum Dots Photoligated with Multifunctional Zwitterionic Polymers for Immunofluorescence and Imaging. *Bioconjugate Chemistry*, **2020**, 31, 1497-1509	6.3	9
5	Enhanced Uptake of Luminescent Quantum Dots by Live Cells Mediated by a Membrane-Active Peptide. *ACS Omega*, **2018**, 3, 17164-17172	3.9	9
4	The dual-function of lipoic acid groups as surface anchors and sulfhydryl reactive sites on polymer-stabilized QDs and Au nanocolloids. *Journal of Chemical Physics*, **2019**, 151, 164703	3.9	8
3	Margatoxin-bound quantum dots as a novel inhibitor of the voltage-gated ion channel Kv1.3. *Journal of Neurochemistry*, **2017**, 140, 404-420	6	6
2	Surface-Functionalizing Metal, Metal Oxide and Semiconductor Nanocrystals with a Multi-coordinating Polymer Platform. *MRS Advances*, **2016**, 1, 3741-3747	0.7	1
1	Macromol. Chem. Phys. 8/2018. *Macromolecular Chemistry and Physics*, **2018**, 219, 1870022	2.6	